



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

20-2015578-PDA  
04-Aug-2020  
03-Aug-2025  
Houston ESD - Ship Equipment

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

### **YALE CORDAGE**

located at

**77 INDUSTRIAL PARK ROAD, SACO, ME, United States, 4072**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Rope, Marine High Modulus Polyethylene (HMPE)**

**Model Yale Cordage Fortis Sling**

This Product Design Assessment (PDA) Certificate remains valid until 03/Aug/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Whipping

Jess C. Gerich Totten, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

## YALE CORDAGE

77 INDUSTRIAL PARK ROAD

SACO ME

United States 4072

Telephone: 207-282-3396

Fax: 207-282-4620

Email: [engineering@yalecordage.com](mailto:engineering@yalecordage.com)

Web: [yalecordage.com](http://yalecordage.com)

**Tier: 2 - PDA Issued**

---

**Product:** Rope, Marine High Modulus Polyethylene (HMPE)

**Model:** Yale Cordage Fortis Sling

**Intended Service:**

Marine Application - Marine Construction and Heavy Lifting Sling.

**Description:**

Parallel Core Rope Heavy Lifting Sling

**Rating:**

Maximum Temperature: 140 °F (60 °C)

Rope Diameters used in Assembly: 0.44" to 2.20". For details see attached "pdf"

**Service Restriction:**

1. Unit Certification is not required for this product.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Additional review is required if used in chemically active environment in accordance with 9-7.8.2 of ASME B30.9.
3. Product testing is required if the external fibers have faded or embrittled during visual and tactile inspection.
4. Fittings are to have sufficient strength twice the rated load of the sling without permanent deformation in accordance with 9-7.2.2 of ASME B30.9.
5. For underwater applications, safety factors are to be not less than 7 for running rope and 5 for standing rope based on the design load of the system as compared to the minimum breaking strength of the product in accordance with Section 19/7.1.2 of Underwater Rules.

**Notes/Drawing/Documentation:**

Drawing No. Fortis Sling Data Sheet, Revision: -, Pages: 1

Drawing No. 7p-10, Rope Production Process, Revision: -, Pages: 1

Drawing No. L006, Rope Manufacturing Process, Revision: -, Pages: 1

Drawing No. 7P-05, Design and Development Control, Revision: -, Pages: 1

Drawing No. 7P-12, Process Control, Revision: -, Pages: 1

Drawing No. 4P-02, Records Control, Revision: -, Pages: 1

Drawing No. 4P-01, Document Control, Revision: -, Pages: 1

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 03/Aug/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**STANDARDS**

**YALE CORDAGE**

77 INDUSTRIAL PARK ROAD

SACO ME

United States 4072

Telephone: 207-282-3396

Fax: 207-282-4620

Email: [engineering@yalecordage.com](mailto:engineering@yalecordage.com)Web: [yalecordage.com](http://yalecordage.com)**Tier: 2 - PDA Issued**

---

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4  
2020 Rules for Building and Classing Underwater Vehicles, Systems, and Hyperbaric Facilities, 19/7.1.2, 19/13,  
19/51.5

**National:**

Cordage Institute Standard CI-1500  
ASME B30.9, 2018

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA